

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 13579WO15212				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PI					
International application No. PCT/IL 03/00585				International filing date (day/month/year) 15.07.2003			Priority date (day/month/year) 15.07.2002		
International Patent Classification (IPC) or both national classification and IPC G08B13/196									
Applicant MAGNA B.S.P. LTD. ET AL.									
1.	<ol> <li>This International preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> </ol>								
			•		٠.	. •			
2.	This	REP	ORT consists of a total of	of 6 sheets, including	this cover	sheet.			
,	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
	These annexes consist of a total of 11 sheets.								
3.	This report contains indications relating to the following items:								
	1	×	Basis of the opinion		•		,		
	II		Priority	er est.					
	Ш	Ø			novelty, in	ventive step ar	nd Industrial applicability		
	IV V	□	Lack of unity of invention						
	٧	LC)	citations and explanation	nder Hule 66.2(a)(ii) w ons supporting such si	rith regard atement	to novelty, inv	entive step or industrial applicability;		
	VI		Certain documents cite	<del>-</del>					
	VII		Certain defects in the in	nternational application	n				
	VIII		Certain observations of	n the international app	lication				
Date	of sub	missio	n of the demand		Date of completion of this report				
10.02.2004						2005			
Name and mailing address of the international preliminary examining authority:						Authorized Officer			
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١.		is of the report							
1.	With regard to the <b>elements</b> of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):								
	Des	cription, Pages							
	1-38	3	as originally filed						
	Clai	ims, Numbers							
	1-37	7	received on 15.09.2004 with letter of 13.09.2004						
	Dra	wings, Sh <del>ee</del> ts							
		2-12/12	as originally filed						
2.	With	h regard to the <b>lang</b> u guage in which the in	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.						
	The	ese elements were av	vailable or furnished to this Authority in the following language: , which is:						
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).						
			olication of the international application (under Rule 48.3(b)).						
		the language of a tr Rule 55.2 and/or 55	anslation furnished for the purposes of international preliminary examination (under						
3.	Wit	th regard to any <b>nucl</b> ernational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:						
		contained in the int	ernational application in written form.						
			he international application in computer readable form.						
			ently to this Authority in written form.						
	☐ furnished subsequently to this Authority in computer readable form.								
		The statement that in the international	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.						
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.						
4	. Th	e amendments have	resulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						

the drawings,

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5. 🏻		d as if (some of) the amendments had not been made, since they have he disclosure as filed (Rule 70.2(c)).								
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)									
6. Ad	ditional observations, if necessary:									
		regard	to novelty	y, inventive step and industrial applicability						
<ol> <li>1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:</li> </ol>										
	the entire international application									
Ø	claims Nos. 27									
_				n an high door						
. 🗆	the said international application, or the said claims Nos. relate to the following subject matter which does									
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear									
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.									
Б	the said claims Nos. 27									
<ol><li>A meaningful international preliminary examination cannot be carried out due to the failure of the hucleotide of or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative</li></ol>										
	nstructions:  the written form has not been	fumish	ed or does t	not comply with the Standard.						
•	the written form has not been	as not l	been furnist	ned or does not comply with the Standard.						
٧.	Reasoned statement under Articitations and explanations supp	cle 35(2 corting	2) with rega such state	ard to novelty, inventive step or industrial applicability; ement						
1.	Statement									
	Novelty (N)	Yes: No:	Claims Claims	1-26 28-37						
	Inventive step (IS)	Yes: No:	Claims Claims	1-26 28-37						
	Industrial applicability (IA)	Yes: No:	Claims Claims	1-26 28-37						
2.	Citations and explanations									

Form PCT/IPEA/409 (January 2004)

see separate sheet



#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

- 1.1. Reference is made to the following documents:
  - D1: EP-A-1 170 715 (H A N D GMBH) 9 January 2002 (2002-01-09)
  - D2: DE 197 09 799 A (BOSCH GMBH ROBERT) 17 September 1998 (1998-09-17)
  - D3: US-A-5 790 183 (KERBYSON GERALD M) 4 August 1998 (1998-08-04)
  - D4: DE 198 09 210 A (SIEMENS AG) 16 September 1999 (1999-09-16)
  - D5: JP-A-2000 059796 (INOUE SHUJI ET AL) 25 February 2000 (2000-02-25)(interpreted after US-B-6 512 5371, published 28 January 2003 (2003-01-28))
  - D6: US-A-5 862 508 (MIYATAKE TAKAFUMI ET AL) 19 January 1999 (1999-01-
- 1.2. The present application does not meet the criteria of the PCT, because the subject-matter of claim 1 is not clear in the sense of Article 6 PCT.
  - In the amended claim as on file, the coexistence of an option "OR" in the pairs of optical OR thermal imagers, is not consistent with point d) of the method claimed, where it is clearly necessary to provide both types of data. This option included in the claim is not possible, and makes its scope unclear.
- 1.3. Even interpreting only the possiblity of the system featuring both thermal and optical imagers as claimed, and seeking to give an opinion on the only possible clarified interpretation of the claim, its subject matter would lack the required inventive step (Art. 33(3) PCT)
  - The document D1 discloses (the references in parentheses applying to this document) a method for the monitoring of an environment, comprising the steps
  - a) defining and storing in a memory programs for processing, in real-time, data obtained from the observation of objects by one or more pairs of optical and/or thermal imagers (Par. 0034; See comment above, clarity, and below concerning thermal imaging), relatively positioned along a common vertical line, for identifying said objects and determining whether they are dangerous; (Col. 2, lines 20-34);

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- c) determining and storing parameters according to which the observation of the controlled space is effected (Col. 2, lines 41-44; Col. 2, lines 49-54; Col. 4, lines 5-32);
- d) carrying out photographic observation of the controlled space or sections thereof according to the aforesaid observation parameters (Col. 2, lines 7-20); and
- e) Jointly processing the digital data representing said optical and thermal photographs(par. 0034; see clarity above, as well as comment below with regard to the presence of thermal imaging), to determine whether possible dangerous objects have been detected, and if so, classifying said objects according to the stored danger parameters (Col. 6, lines 15-26).
- The term "processing in real time" is deprived from a precise technical content which can be opposed to "using a bank of scenarios" as in D1. A system can use a bank of scenarios and yet process data in real time as claimed.
- Even in the case of considering only the AND option, the claim should be deemed not inventive, since D2 discloses the attachement of two imagers to a single pole (not being the fact that they are positioned along a common vertical line a feature which can be identified as involving an inventive step over the prior art). On the other hand, the term "videosensor" used in D2 does not exclude thermal imaging. The use of thermal imaging being a normal surveillance option that would be incorporated by the person skilled in the art without exercise of inventive step in a system intended for outdoors day and night (an airport, such as in D1) surveillance, it cannot serve as the basis for the assessment of inventiveness.

The subject matter of claim 1 does not, thus, involve an inventive step (Art. 33(2) PCT).

1.3. To claim 28,it also lacks clarity, insofar the term "photographic/thermal" does not reflect unambiguously what type of observation is undertaken (alternative, concurrent, combined, for instance. It has to be noticed also that photographic and thermal are not exclusive concepts). and does not define clearly the claim as required by Art. 6 PCT.

An interpretation of the claim as including thermal and optical imagers would lead to the same conclussion as in claim 1.

Furthermore, independent claim 28 only incorporates to the disclosure of D3 a set of features that represent commonplace characteristics in monitoring apparatuses, corresponding to non connected technical problems (the vertical alignment and

the thermal imaging), where a common inventive concept cannot be indentified. and is, for instance anticipated by D3.

The same considerations with regard to the "real time processing" or the "thermal and / or optical imagers" as above apply.

D3 discloses, as far as it can be interpreted, an apparatus for monitoring an environment comprising:

- a) One or more pairs of optical and/or thermal imagers (see D3 Col. 6, line 30-48, as well as comment above), relatively positioned along a common vertical line for carrying out photographic/thermal observation of the controlled space or sections thereof (Fig. 4, 111):
- b) a set of motors for changing the sections of the said photographic observation (Fig. 4, 121);
- c) elaborator means for jointly processing the digital data representing said optical and thermal photographs, to determine whether possible dangerous objects have been detected, and if so, classifying said objects according to the stored danger parameters, processing the digital data representing the photographs taken by said photographic devices(Fig. 4, 211; Col. 6, line 30- Col. 7 line 2.).
- d) memory means for storing the digital data representing said photographs and the results of said processing (Fig. 4, 221).

The subject matter of claim 28 cannot be regarded as involving an inventive step.